PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: REC'D 23 MAY 2005 JENNIFER PEARSON MEDLIN NEEDLE & ROSENBERG, P.C. POT **SUITE 1000** WRITTEN OPINION OF THE 999 PEACHTREE STREET INTERNATIONAL SEARCHING AUTHORITY ATLANTA, GA 30309-3915 (PCT Rule 43bis.1) Date of mailing 2.0 MAY 2005 (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION See paragraph 2 below 21087.0026P1 International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/US04/06360 02 March 2004 (02.03.2004) 10 March 2003 (10.03.2003) International Patent Classification (IPC) or both national classification and IPC IPC(7): A 61 B 5/05 and US Cl.: 600/407,410,425,436; 382/131; 606/130; 378/21,23 Applicant UNIVERSITY OF IOWA RESEARCH FOUNDATION 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II **Priority** Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Lack of unity of invention Box No. IV Box No. V Reasoned statement under Rule 43bis. 1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. 3. For further details, see notes to Form PCT/ISA/220. Authorized officer Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450

Telephone No. 571-272-4739

Form PCT/ISA/237 (cover sheet) (January 2004)

Facsimile No. (703) 305-3230

Alexandria, Virginia 22313-1450

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/06360

Box No. I	Basis of this opinion
it was filed	to the language, this opinion has been established on the basis of the international application in the language in which unless otherwise indicated under this item.
	opinion has been established on the basis of a translation from the original language into the following language, h is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2 With rega	ed to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the ention, this opinion has been established on the basis of:
a. type	of material
	a sequence listing
	table(s) related to the sequence listing
b. for	nat of material
	in written format
	in computer readable form
c. tim	e of filing/furnishing
	contained in international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been ed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additiona	l comments:
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International application No.

PCT/US04/06360

Box N	No. II Priority
1.	The following document has not yet been furnished:
	copy of the earlier application whose priority has been claimed (Rules 43bis.1 and 66.7(a)).
	translation of the earlier application whose priority has been claimed (Rules 43bis.1 and 66.7(b)).
	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.
2. 🔀	This opinion has been established as if no priority has been claimed due to the fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.
The	onal observations, if necessary: priority claim has been found invalid because the filing date of the priority application is outside the time period provided in Rule 4.10.
Form PO	CT/ISA/237 (Box No. II) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/06360

INTERNATIONAL SEARCHING AUT	HORIT	Y			
Box No. V Reasoned statement under Rule 43 bi applicability; citations and explanation		_	- '	inventive st	ep or industrial
1. Statement					
Novelty (N)	Claims	NONE			YES
	Claims	1-30			NO
Inventive step (IS)	Claims	NONE			YES
	Claims	1-30			NO
Industrial applicability (IA)	Claims	1-30		<u>.</u>	YES
	Claims	NONE			NO
2. Citations and explanations: Claims 1-30 lack novelty under PCT Article 33(2) as being Grzeszczuk et al anticipate all claimed features in claims 1 an object is reconstructed from first imaging system such a 18 applied to reconstructed images to provide surface mapline 18). The images obtained from the CT, MRI, PET, e a CT imager as shown in figure 1 changes the angel of the figure 3) where the image reconstruction requires iterative shown in figure 1.	-30. Grants -30. G	zeszczuk et al d IRI, PET (colur umn 3, line 42 I three-dimension iterate the imag	lisclose a meth mn 1, lines 53 - column 4, li onal images (c se acquisition p	od and appara -60) with opti ne 38; colum olumn 1, line procedure (see	atus where an image of ical imaging component n 5, line 4 - column 6, s 53-60). The C-arm of e block diagram on